

# 2015+ FORD F-150 3.5L/2.7L EcoBoost/5.0L V8 Performance Aluminum Radiator PARTS LIST & INSTALLATION GUIDE



## PARTS INCLUDED

- 1PC** Mishimoto Radiator
- 1PC** Magnetic Drain Plug w/ Dowty Seal
- 6PC** M6 X 1.0 16mm Bolts
- 1PC** M6 X 1.0 20mm Bolt
- 1PC** M4 X 0.7 10mm Bolt
- 1PC** O-Ring
- Mounting Hardware

## TOOLS NEEDED

- 8mm Socket
- 10mm Socket
- 13mm Socket
- 10mm Wrench
- 19mm Wrench
- 1/4" Drive Ratchet & Extension
- 2.5mm Allen Key
- Flat Head Screwdriver
- Pop-Clip Removal Tool
- Pliers

**INSTALL TIME** 4 Hours

**INSTALL DIFFICULTY**     

## DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

## INSTALL PROCEDURE

1. Drain the coolant from the system. A piece of hose can be used to help direct the coolant to a bucket. Remove the filler cap to expedite the draining process.



2. Remove the intake duct.  
(2x pop-clips, 1x 8mm screw)



3. Remove the clips from the corner panels along each side of the grille. The clips are located at the top of the panels. (2x pop-clips)
4. Remove the clips that secure the radiator cover. Lift the cover off the top edge of the radiator and grille. (8x pop-clips)
5. Disengage the plastic covers that surround the headlights.
6. Disengage the clips on the radiator ducting. (4x pop-clips)

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7. Disconnect the grille shutter, camera, and washer fluid harnesses. Separate the wiring from the clips that secure them in place. (2x tree clips)



8. Remove the bolts that secure the grille. There are four on the top edge and two at the bottom past the loose headlight covers. (4x 10mm bolts, 2x 8mm bolts)



9. Release the clips on each side of the grille. You will need to lift the grille to reach these clips. Lift the grille off the vehicle once free. (2x tree clips)  
10. Remove the bolts on the transmission cooler brackets. (2x 10mm bolts)



11. Free the bracket that holds the transmission line on the driver side. (1x 10mm bolt)



12. Detach the radiator shrouding on each side. Once the bracket is free, move it out of the way and then remove the bolt behind it. (1x 10mm bolt & nut)



13. Detach the radiator shrouding on each side. (8x pop-clips)

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**02**

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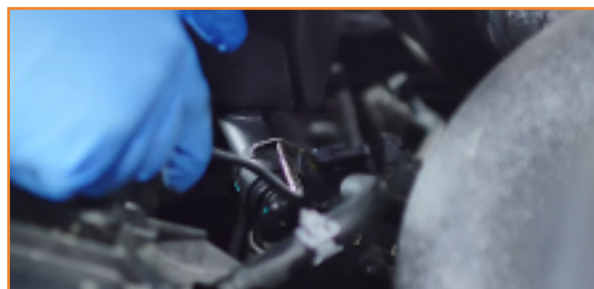
14. Compress the clamp on the overflow hose and reposition the clamp down the hose so it clears the barb. Slide the hose off the radiator port. (1x spring clamp)



15. Compress the clamp on the coolant hose at the back of the expansion tank and slide the hose off the tank. (1x spring clamp)



16. Remove the bolts that secure the expansion tank. (2x 10mm bolts)  
17. Disconnect the hose at the bottom of the expansion tank to remove the tank. (1x spring clip)



18. Unscrew the bolt on the bracket that holds the driver-side transmission line. (1x 10mm bolt)



19. Disconnect the two fan harnesses and release the clips holding the harness to the fan shroud. (11x tree clips)  
20. Disconnect the MAP sensor.  
21. Release the clip on the lower radiator hose connection. Slide the lower radiator hose off the radiator. (1x spring clip)



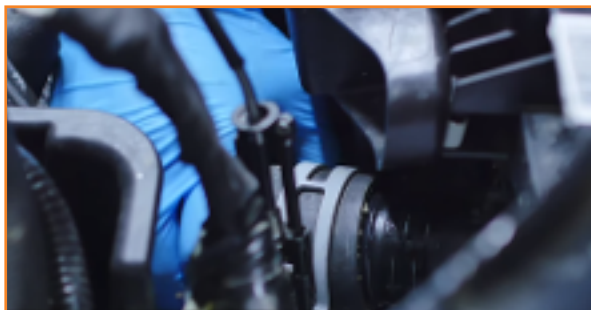
22. Compress the clamp on the upper radiator hose and pull the hose off the radiator port. (1x spring clamp)

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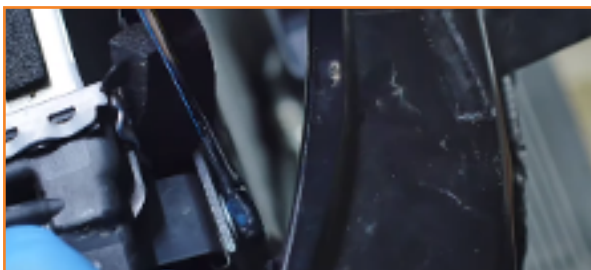
**03**



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23. Remove the bolts that secure the top brackets on the radiator. (2x 13mm bolts)
24. Lean the radiator back to access the bolt that secures the AC condenser to the radiator. Remove the bolt to free the condenser. (1x 10mm bolt)



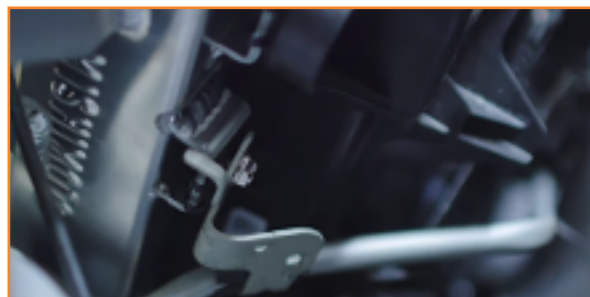
25. Depress the black tab on the other side of the AC condenser. Then remove the AC condenser from the radiator.
26. Separate the shrouding from the bottom of the fan shroud. (4x tree clips)
27. Remove both the radiator and fan shroud from the truck.
28. Transfer the fan shroud to the Mishimoto radiator. Secure it to the radiator with the provided bolts. (2x 10mm short bolts)



29. Transfer the rubber bushings to the Mishimoto radiator.
30. Lower the radiator and fan shroud into the engine bay.
31. Secure the AC condenser to the radiator using the provided bolt. (1x 10mm short bolt)
32. Attach the transmission line to the AC condenser with a provided bolt, placing a provided spacer between the brackets. (1x 10mm long bolt, 1x spacer)
33. Secure the AC condenser bracket to the radiator with the provided retaining tab and bolt. (1x 2.5mm Allen bolt)



34. Secure the transmission line to the bracket on the radiator using the provided bolt. (1x 10mm short bolt)



35. Reinstall the transmission cooler using the provided hardware. (2x 10mm short bolts)
36. Secure the radiator to the radiator support. (2x 13mm bolts)
37. Reconnect the fan shroud electrical harness.
38. Reconnect the MAP sensor and secure its

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- wiring harness.
39. Reinstall the expansion tank.  
(1x spring clip, 2x 10mm bolts)
  40. Reinstall the small coolant hose to the expansion tank and radiator. (2x spring clips)
  41. Secure the shrouding along the sides of the radiator. (8x pop-clips)
  42. Reinstall both radiator hoses to their respective ports on the radiator.  
(1x spring clip, 1x spring clamp)
  43. Connect the shrouding to the bottom of the fan shroud. (4x tree clips)
  44. Reinstall the grille. (2x 8mm bolts, 2x tree clips)
  45. Connect the radiator ducting to the grille.  
(4x tree clips)
  46. Secure the top of the grille. (4x 10mm bolts)
  47. Reconnect the grille shutter, camera, and washer fluid harnesses. Clip the wiring back into place.  
(2x tree clips)
  48. Reinstall the radiator cover and intake duct.  
(10x pop-clips, 1x 8mm screw)
  49. Reconnect the plastic covers over the headlights.  
(2x pop-clips)
  50. Refill your coolant to the proper level.

**Congratulations! You have finished installing the Mishimoto 2015+ Ford 3.5L/2.7L EcoBoost/5.0L V8 Performance Aluminum Radiator.**